Seviet Acroflet Airlines. p. 10.

admick., b.

(SAMETHERE HISER. Vol. 13, Mo. 27, July 1957. Marszawa, Poland)

SO: Lonthly List of most European Accessions (EEML) 10. Vol. 6, No. 10, October 1957. Uncl.

SOLNICKI, Henryk, ins.

Influence of applying divided brushes upon the degree of sparking in the LKa-450 type motor. Przegl elektrotechn 38 no.7:312 Jl '62.

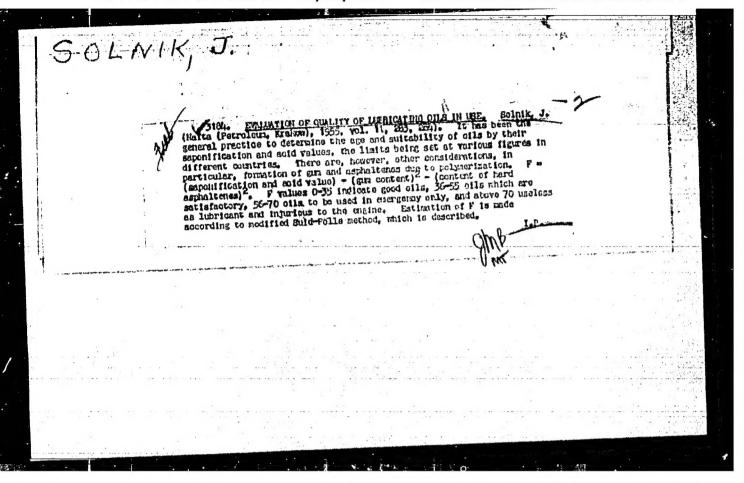
1. Instytut Elektrotechniki, Warszawa.

SOLNICKOVA, Z.

SOLNICKOVA, Z. New forms of planning, supply, and consumption as a means of improving consumers' goods supply of the population. p. 482

Vol. 7, nc. 11, 1956 PRUMYSL POTRAVIN TECHNOLOGY Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, 1957



SOLNIMSKY, C.L., professor; BERESTINEY, V.A.

Regarding the concepts of the strength of polymer materials. Khim.
nauka i prom. 4 no.4:543-544 '59. (MIRA 13:8)

(Polymers) (Strength of materials)

L 29613-66 EEC(k)-2/EWT(d)/FSS-2 BC SOURCE CODE: UR/0146/66/009/001/0119/0124

AUTHOR: Vorob'yev, V. G.; Sol'nitsev, R. I.

ORG: Leningrad Electrotechnical Institute in. V. I. Ul'yanov (Leningradskiy

B

elektrotekhnicheskiy institut)
TITLE: Simulation of nonlinear gyroscopic systems (

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 1, 1966, 119-124

TOPIC TAGS: gyro, gyroscope system, gyroscope motion equation

ABSTRACT: A simulation method combined with a method of harmonic linearization is suggested for investigating nonlinear gyro systems. Some motion parameters obtained on a simulator are substituted into the implicit equations that connect motion parameters and instrument parameters. Other motion parameters determined analytically are used as checks for the simulation results. Thus, the formulas resulting from the harmonic linearization serve to determine the direction of further simulator studies intended to find optimal instrument parameters. The above approach requires evaluation of the simulation error, particularly in the problem of the stability evaluation of the simulation error, particularly in the problem of gyro drift due to range in the controllable-parameter space and in the problem of gyro drift due to small disturbances. The above method is illustrated by numerical example of a two-small disturbances. The above method is illustrated by numerical example of a two-small disturbances. The above method on a fixed base. Orig. art. has: 3 figures ard 16 formulas.

Cord 1/1 SUB CODE: 17 / SUBM DATE: 24Jul 64 / CRIG REF: CG2 TIC

TSOY: S.V.; IVANOV, P.P.; SOLNITSYN, B.P.; SEMENOV, V.I.

Automatic circuit breaker. Trudy Inst.gor.dela AN Kazakh.SSR
(MIRA 15:4)

(Dust collectors) (Automatic control)

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5-5

RUMANIA/Morphology of Man and Animals -

(Normal and Pathologic), Pathologic Anatomy.

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 12485

Author

Serbanescu, C., Draghici, D., Solnitzky, A.

Inst

Title

The Effect of Intravenous Aluminum Hydroxide on Experimen-

tal Animals.

Orig Pub

: Bibliot. stiint Ints. Patol. si igiena anim. Ministerul

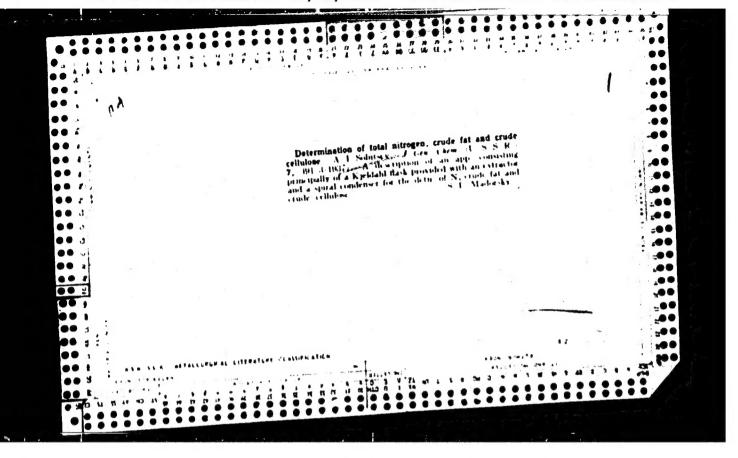
agric. si silvicult., 1955, No 5, 25-33

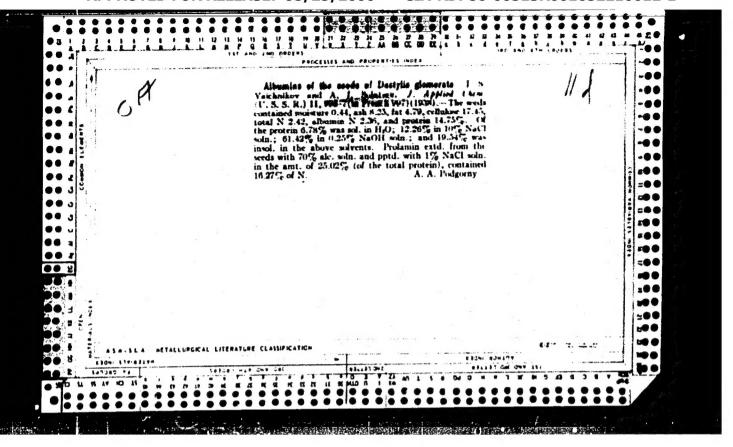
Abstract

: Various laboratory animals (mouse, rat, guinea pig, rabbit, dog) sacrificed 3 hours after an intravenous injection of 0.1 ml of a 10% suspension of aluminum hydroxide displayed reactive changes in the lungs, the liver, the spleen and the kidney. There was a dilitation of the capillary bed and a perivascular infiltration by histiocytic and, to a lesser extent, lymphoid elements. The intensity of the reactions differed in various organs (maximal in the lungs,

minimal in the kidney).

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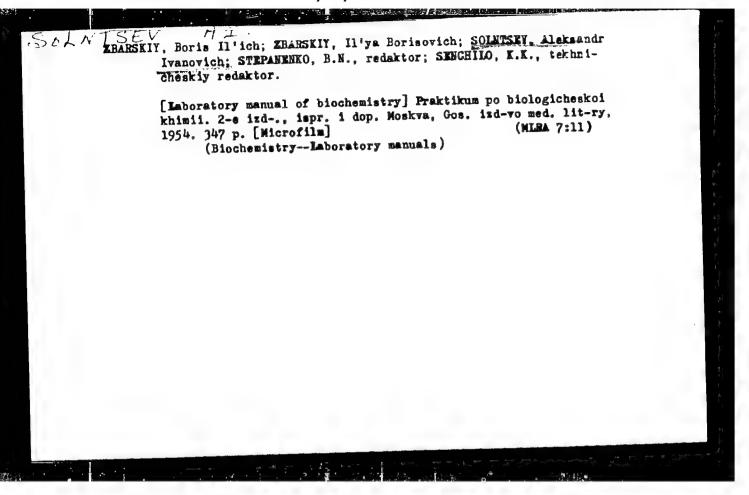


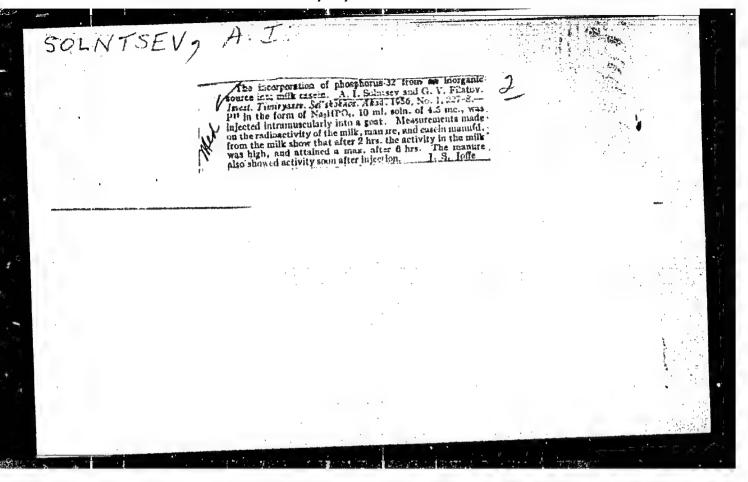


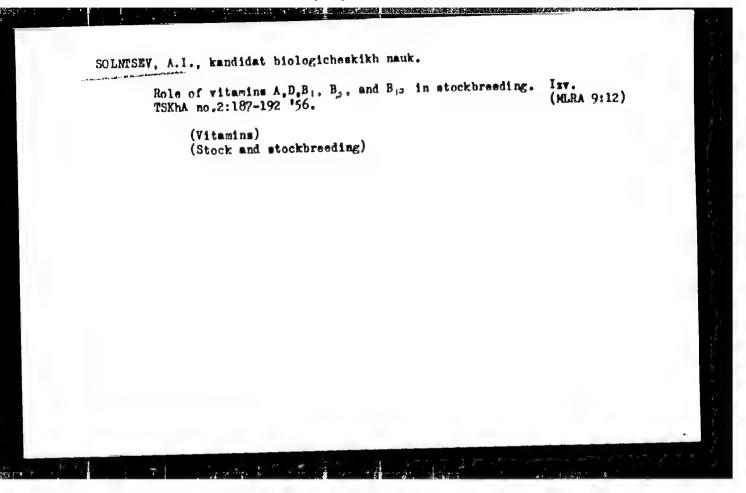
ZBARSKIY, B.I., prof.; ZHARSKIY, I.B.; SOINTSEV, A.I.; STEPANKNKO, B.N., red.; DEMKINA, A., tekhn. red.

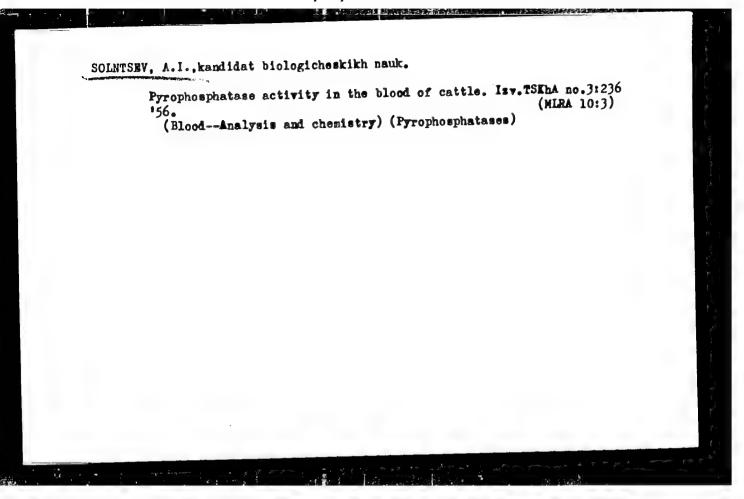
[Laboratory manual of biological chemistry] Praktikum po biologicheskoi khimii. Moskva, Medglz, 1949. 223 p. (MIRA 15:4)

(BIOCHEMISTRY—LABORATORY MANUALS)









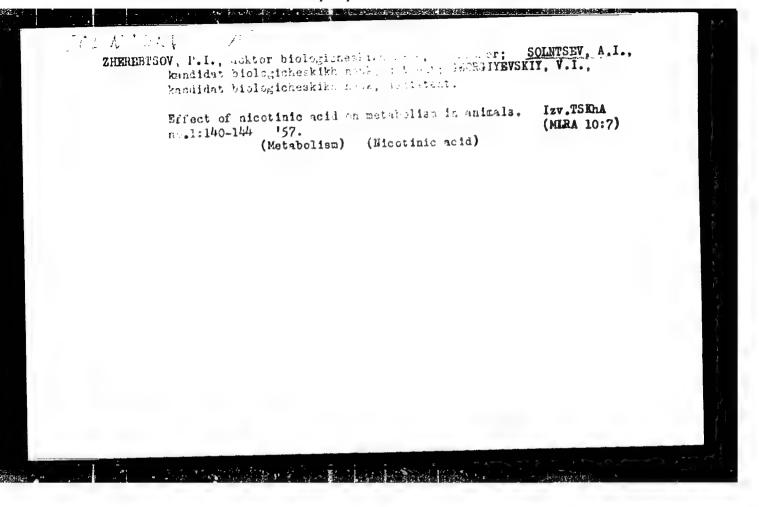
"Concerning Calcium Metabolish in Ruminants in an Investigation Using Calcium 45," by A. I. Solntsev and G. V. Filatov, Zhivotnovodstvo (Animal Husbandry), No 12, 1956, pp 53-55 (from Referativnyy Zhurnal -- Khimiya, Biologicheskaya Khimiya, No 8, 25 Apr 57, Abstract No 3661, by A. Verloochenko, p 83)

"Three-ml solutions of Cal45Cl2 containing 500 mg Ca were administered intramuscularly into goats. Two hours after this injection, the amount of Cal45 excreted per ml milk equalled 6.4 thousand impulses per minute; seven hours after the injection, the activity per one ml milk minute; seven hours after the injection, the activity per one ml milk was 45 thousand impulses per minute; and 24 hours after the injection, it amounted to 60.1 thousand impulses per minute per ml milk.

"Subsequently, calcium radioactivity in the milk commenced to decrease gradually, and in two months it equalled 0.6 thousand impulses per minute per ml milk. During this same period, twice as much Ca<sup>15</sup> was excreted with the milk as with the feces." (U)

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USSR/General Biology - Physical Chemical Biolog.

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Abs Jour : Ref Zhur Biol., No 6, 1959, 23484

Author : Solntsev, A.I.

Inst : Agricultural Academy imemi K.A. Timiryazevá

Title : On the Chemical Nature of Enzymes.

Orig Pub : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957,

vyp. 30, ch. 2, 46-52

Abstract : Review of old and new literature on the protein nature

of enzymes. The role of coenzymes (cocarbooxylase and codehydrases I and II and coenzyme  $\Lambda$ ) and cytochronic system in tissue respiration is pointed out. The participation of some vitamins and metals - Fe, Cu and Zn - in the

structure of enzymes is noted. -- V.A. Dorfman

Card 1/1

#### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652210012-1

SOLNTSEV, A.I., dots., kand.biol.nauk

Chenical nature of fernents [with summary in English). Izv. TSKhA
(MIRA 11:11)
no.5:217-222 '58.

(Fermentation)

ZHEREBTSOV, P.I., prof., doktor biol. nauk; SOLNTSEV, A.I., dots., kand. biol. nauk.

Role of ascorbic acid in the metabolism of anima organism [with summary in English]. Izv. TSKhA no.6:177-182 '58. (MIRA 12:1) (Ascorbic acid.--Physiological effect) (Metabolism)

SAKIN, I.L.; RESHINA, I.I.; SOLNTSEV, A.I.

Double monochromators. Opt.-mekh.prom. 25 no.4:2-8 Ap '58.

(Mira 11:10)

(Monochromators)

ZHEREBTSOV, P.I., doktor biologicheskikh nauk, prof.; SOLNTSEV, A.I., kand.biologicheskikh nauk, dotsent

Role of riboflavin in the metabolism of animals. Izv. TSKhA no.2: 213-216 '60. (MIRA 14:4)

(Riboflavin) (Metabolism)

SOLNTSEV, A.I., kand.bilogicheskikh nauk, dotsent; MUKHINA, N.A.

Present-day views on the biochemistry of milk carbohydrates. Isv.
TSKhA no.6:198-203 '60.
(MILK-COMPOSITION) (CARBOHYDRATES)

ZHEREBTSOV, P.I., prof., doktor biolog.nauk; SOINTSEV, A.I., dotsent, kand.biolog.
nauk.

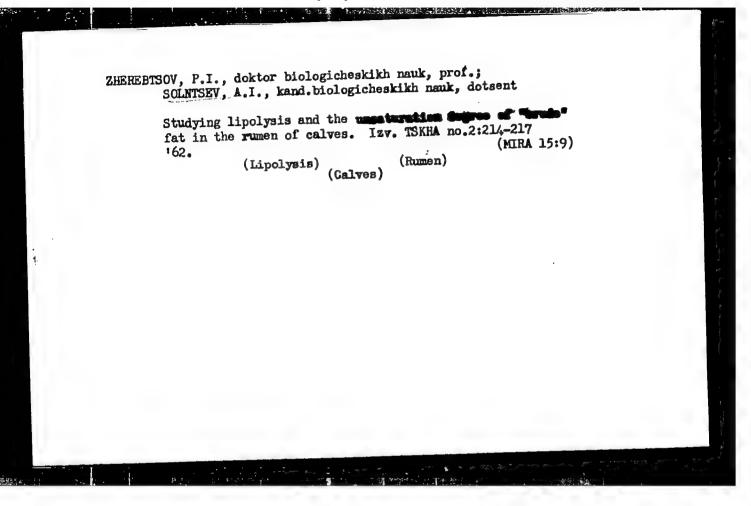
Fermentative activity of an isolated section of rumen. Iso. TEMA
no.1:92-96 '61.

(Rumen)

ZBARSKIY, Boris Illich, prof.[deceased]; ZBARSKIY, Illya Borisovich; SOLNTSEV, Aleksandr Ivenovich; DEBOV, S.S., red.; EUL'EYAYE, N.A., tekhn. red.

[Laboratory work in biochemistry] Praktikum po biologicheskoi khimii. 3. izd., ispr. i dop. Moskva, Medgiz, 1962. 279 p. (MIRA 15:7)

1. Kafedra biologicheskoy khimii Pervogo Moskovskogo meditsinskogo instituta (for Zbarskiy, B.I., Zbarskiy, I.B., Solntsev). (Biochemistry—Laboratory manuals)



SOLNTSEV, A.I., kand.biologicheskikh nauk, dotsent; MUKHINA, N.A.;

P'TESHCHAK, M.Yu., aspirant

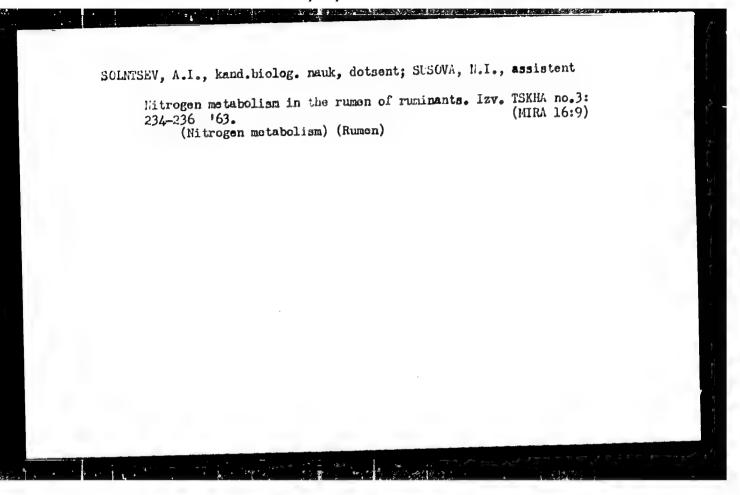
Role of lactose in animal feeding. Izv. TSKHA no.3:228-232
(MIRA 15:9)

'62. (Feeding) (Lactose)

ZHEREBTSOW, F.I., doktor biolog. nauk, prof.; SOLMTSEV, A.I., kand. biolog. nauk, dotsent

Vitamins in animal husbandry. Izv. TSKHA no.1:79-90 '63.

(Witamins) (Veterinary physiclegy)



ZHEREBTSOV, P.I., dekter biolog. nauk; SOLNTSEV, A.I., kand. biolog. nauk; MUKHINA, N.A., kand. biolog. nauk, dotsent

Carbohydrate metabolism in the rumen of ruminants. Izv. TSKHA no.4:134-143 '63. (MIRA 17:1)

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DURENCOV, ..., prof. doktor biol. nauk; SOHTENV, A.I., detay .. kand.
biol. nauk

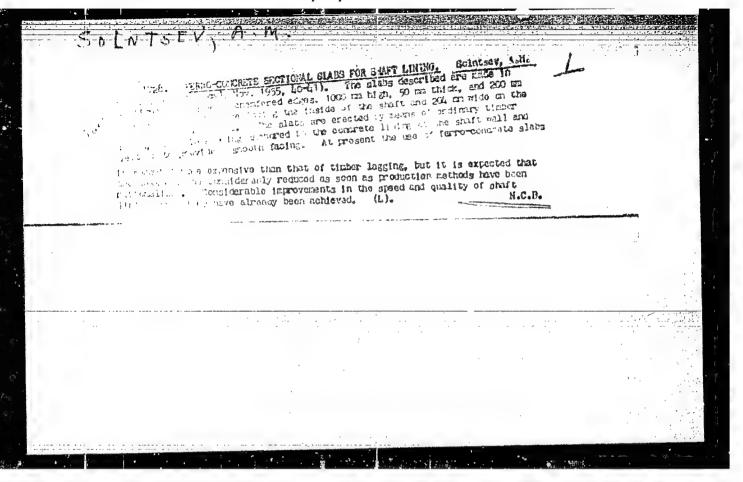
Lifect of nitrates on the organism of ruminants. Izv. TSHEA
no.6148-155 '64 (MIRA 18:1)

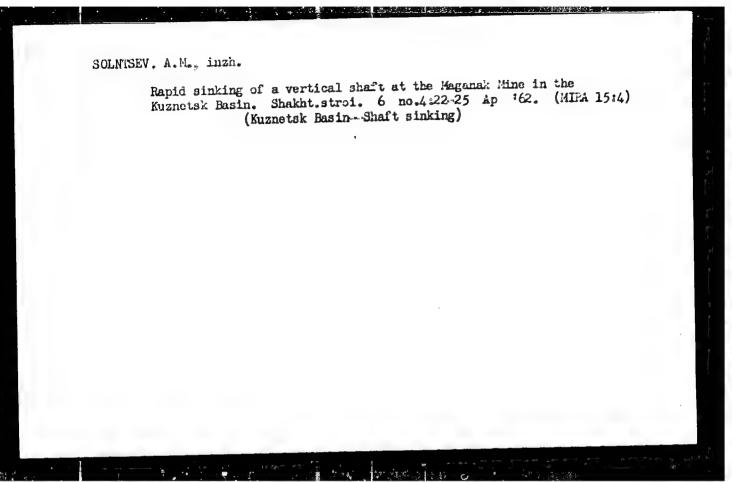
1. Kafedra fiziologii i biokhimii nel'skokhoz. zhivotnyku,
loskovskoy ordana Lenina sel'skokhozynystvennoy akudemi imeni
K.A. Timiryazeva.

ZHEREBTSOV, P.I., prof. doktor biol. nauk; SCINTSEV, A.I.; dotsent, kand. biolog. nauk

Ammonia metabolism in ruminants. Fzv. TSKHA no. 1:145-149
(MIRA 19:1)

1. "afedra fiziologii i biokhimii sel!skokhozyaystvennykh zhivotnykh Moskovskoy sel!skokhozyaystvennoy ordena Lenine akademii imeni Timiryazeva.

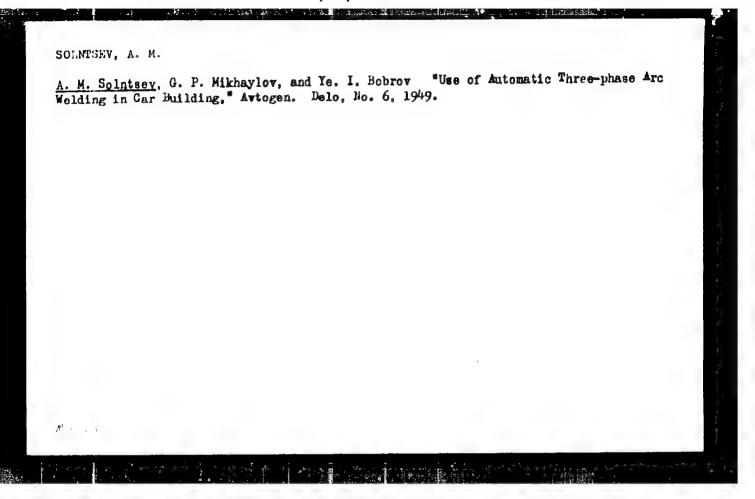




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regin shaft sinking at the No.2 "Abashevskaia" coal mine. Shakht.
arcoi. 9 no.8:21-24 Ag '65.

1. Reservoyal; gornyy institut (for Leont'yev). 2. Novokuznetskoye
makhtostroya; ravientye (for Komarev). 3. Nauchno-issledovatel'skiy
Institut streitel'atva ugol'nykh i gornorudnykh predpriyatiy,
Kenerovo (for Solntaev, Ealabin).



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TROYANOVSKIY, Vasiliy Vasiliyevich; SOLMTSEV, A.M., inzhener, retsenzent; SIDOROV, N.V., inzhener, redaktor; FOPOVA, S.M., tekhnicheskiy redaktor

[Electric clocks] Elektricheskie chasy. Izd. 3-e, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956.
226 p.

(Glocks, Electric)

# Use of monolytic rubber half heels for men's fancy footwear. Kozh.-obuv.prom. 4 no.12:29-30 D '62. (MIRA 16:1) (Shoe manufacture)

MEZLIN, M.V.; SOLMTSEV, A.M.

Acceleration of ions in plasma beams. Zhur. eksp. i teor. fiz.
45 no.4:840-849 0 '63.

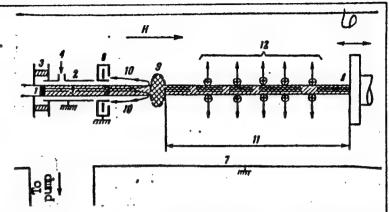
(MIRA 16:11)

EWT(1)/ETC(F)/EPF(n)-2/EWG(m) SOURCE CODE: UR/0056/65/049/005/1377/1388 ACC NR: AP6000188 Nezlin, M. V.; Solntsev, A. M. AUTHOR: ORG: none TITIE: On discrete states of a plasma beam and transitions between them Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 5, 1965, SOURCE: 1377-1388 TOPIC TAGS: plasma beam interaction, plasma electron temperature, plasma oscillation, plasma velocity, plasma instability ABSTRACT: This is a continuation of earlier work (ZhETF v. 48, 1237, 1965 and other papers) dealing with the unique instability exhibited under certain conditions by a cold plasma column when broached by a beam of accelerated primary electrons. Whereas the earlier studies were confined to limited ranges of the primary and secondary electron velocities, in the present article the authors studied experimentally the states of the beam for a great variety of primary/secondary density ratios. Another purpose of the investigation was to determine the frequency spectrum of the oscillations produced in the beam during all its states, and the dependence of this spectrum on the form of the beam-electron velocity distribution function. The experimental setup (Fig. 1) was such that the anode could be moved both longitudinally and transversely to determine the electron and ion distribution. The plasma source was described in the earlier paper. Two operating modes were employed, that of the direct arc and of the reflecting arc. The apparatus is described in detail. The magnetic field could Card 1/2

### L 12147-66

### ACC NR: AP6000188

Fig. 1. Experimental setup. 1-discharge cathode, 2-discharge chamber, 3--insulator, 4--gas inlet, 5--beam, 6--ring, 7--vacuum chamber, 8--anode, 9--virtual cathode, 10--electron-beam trajectory at instant of virtual cathode formation, 11-region of positive potential, 12--accelerated ions.

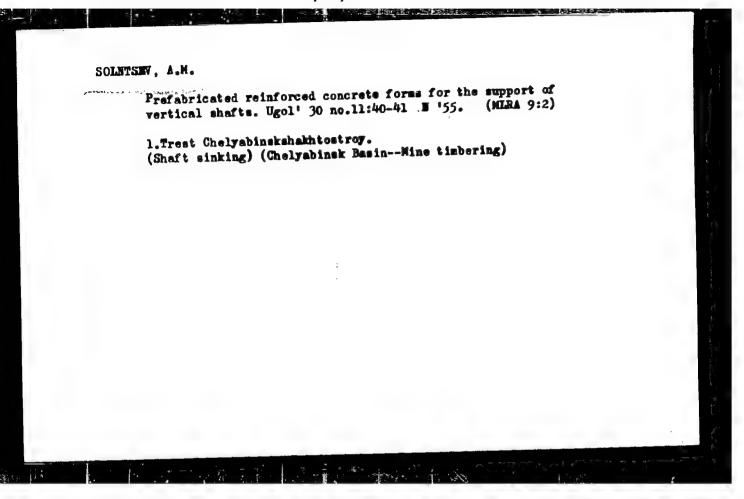


be varied from 1000 to 5000 oe, and was 1400 oe in most experiments. The gas in most experiments was argon. The tests showed that the transition from the macroscopically stable state to the state with virtual cathode is effected in two steps, during which appreciable changes take place in the plasma-particle energies, oscillation frequencies, and the beam radial dimensions and potential. These instabilities remain of the same character when the velocity distribution function of the fast electrons becomes completely disordered. The results are compared with those by others and certain similarities noted. Authors thank A. B. Mikhaylovskiy for stimulating discussions and W. Piffl for taking part in some of the measurements. Orig. art. has: 9 figures and 3 formulas.

SUB CODE: 20/ SUBM DATE: 08Apr65/ ORIG: REF: 009/ OTH REF: 003

SOLNTSEV, A. M.: "Restorative operations in the jaw and face region using cartilege from corpses". Kiev, 1955. Odessa State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 52, 2h December, 1955. Moscow.



SOLNISHY A.M.

Plastic surgery of the helix using a shaping membrane. Stomatologiia 35 no.4:34-35 Jl-Ag '56 (NLRA 10:4)

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1. Iz kafedry chelyustno-litsevoy khirurgii (zav.-prof. M.M Velikanova) Kiyevskogo instituta usovershenstvovaniya vrachėv (dir.-zasluzhennyy deyatel' nauki prof. I.I. Kal'chenko) i 1-go Respublikanskogo chelyustno-litsevogo gospitalya dlya invalidov Otechestvennoy voyny (nachal'nik M.O. Brudnyy) (EAR--SURGERY)

### SOLNTSKY, A.M.

Subcutaneous emphysema as a complication following tooth extraction. Stomatologiia 35 no.5:55-56 S-0 '56 (MLRA 10:4)

1. Iz kafedry chleyustno-litsevoy khirurgii i stomatologii (zav.-prof. M.M. Velikanova) Kiyevakogo instituta usovershenstvovaniya vrachey (dir.-prof. I.I. Kal'chenko)
(TEETH--RITRACTION) (EMPHYSEMA)

SOINTSEV, A.M., kand, med, nauk, YAMPOL'SKAYA, Z.K.

Surgery for lacrimal fistulas. Vrach, delo no. 4:425-427 Ap'58
(MIRA 11:6)

1. Kafedra chelyustno-litsevoy khirurgii (zav. - prof. M.M.
Velikanova) Kiyevskogo instituta usovershenstvo-vaniya vrachey.
(SALIVARY GLANDS-SURGERY)
(PISTULA)

SOINTSEV, A.M., kend.med.nauk (Kiyev, ul. Lenins, d.50, kv. 8)

Homoplastic implantations of different kind of cartilage; experimental investigation. Nov.khir.arkh. no.6:58-62 N-D '58.

(MIRA 12:3)

1. Kafedra patologicheskoy nastomii (xav. - zasl. deyatel' nauki prof. M.K. Dal') Kiyevskogo institute usovershenatvovaniya vrachey.

(CARTILAGE-TRANSPLANTATION)

SOLNTSEV, A.M., kand.med.nauk

Formation of the auricula on an acrylate framework. Vrach.delo no.7:737-738 J1'58 (MIPA 11:9)

1. Kafedra chelyustno-litsevoy khirurgii (zav. - prof. E.A. Aleksandrova) Kiyevskogo instituta usovershenstvovaniya vrachey. (EAR.-SURGERY)

SOINTSEV, A.M., kand.med.nauk

Possibility of using costal cartilage from cadavers of children in plastic operations on the face. Stomstologiia 37 no.2:66 Mr-Ap \*158.

(MERA 11:5)

1. Iz kafedry chelyustno-litsevoy khirurgii (zav.-prof. M.M. Velikanova) Klyevskogo instituta usovershenstvovaniya vrachey (dir.-zneluzhennyy deyate! nauki 11. Kal'chenko).

(FACE-SURGERY) (CARTILAGE-TRANSPLANTATION)

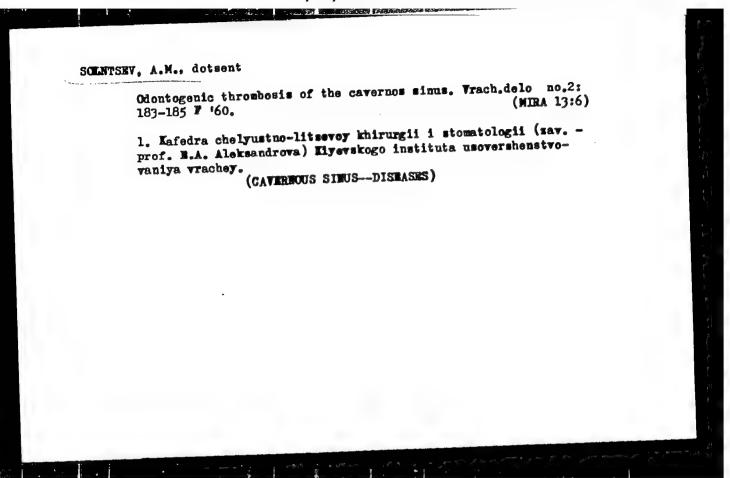
SOLNTSEY, A.M., kand.med.nauk; VOLYNETS, 0.1.

Observation of marble disease (osteopetrosis) in the lower extremities. Vrach.delo no.11:1199 N 59. (MIRA 13:4)

1. Kafedra chelyustno-litsevoy khirurgii (zaveduyushchiy - prof.

B.A. Aleksandrova) Kiyevskogo instituta usovershenstvovaniya vrachey, i gorodskaya klinicheskaya bol'nitsa.

(MITHEMITIES, LOWER--DISEASES) (BOMES)



SOLNTSEV, A.M., VAYSBLAT, I.N.

Medical procedure in the case of unintentional opening of the antrum. (MIRA 15:2) Probl. stom. 5:260-267 160.

1. Kiyevskiy meditsinskiy institut usovershenstvovaniya vrachey. (ANTHUM\_SURGERY)

SOLNTSEV, A.M.

Reduction of the fracture pieces in old fractures of the maxilla. (MIRA 15:2) Probl. stom. 5:303-307 '60.

1. Kiyevskiy institut usovershenstvovaniya vrachey. (JAWS\_\_FRACTURE)

Surgical treatment of odontogenic highmorities. Probleston. 61
(MIRA 16:3)
223-230 162.
(MAXILLARY SINUS—DISEASES) (TEETH—DISEASES)

SOLNTSEV, A.M., dotsent Mandibular necrosis due to circulatory insufficiency. Vrach.

(MIRA 15:3) delo no.2:145-146 F 162.

1. Kafedra chelyustno-litsevoy khirurgii i stomatologii (zav. prof. E.A. Aleksandrova) Kiyevskogo instituta usovershenstvovaniya (BLOOD-CIRCULATION, DISORDERS OF)
(JAW-DISEASES) vrachey.

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SOLNTSEV, A.M., dotsent

Cheloid of the ear lobe. Zhur. ush., nos. i gorl.bol. 22 no.1: (MIRA 15:5)

1. Iz kafedry chelyustno-litsevoy khirurgii i stomatologii (zav. - prof. E.A.Aleksandrov) Kiyevskogo instituta usovershenstvovaniya vrachey.

(EAR-TUMORS)

# SOLNTSEV, A.M., dotsent

Some characteristics of odontogenic highmoritis. Zhur.ush., nos.i gorl.bol. 22 no.2:11-15 Mr-Ap '62. (MIRA 15:11)

1. Iz kafedry chelyustno-litsevoy khirurgii (zav. - prof. E.A. Aleksandrova) Kiyevskogo instituta usovershenstvovaniya vrachey.
(MAXILLARY SINUS—DISEASES) (TEETH—DISEASES)

SOLNTSEV, A.M., inzh.

Sudden rock caving during the sinking of a mine shaft. Berop.truda v prom. 7 no.1:9-11 Ja '63.

(Shaft sinking)

(Mine accidents)

SOLNTSEV, A.M., inzh.; USENKO, A.S., inzh.

Rapid vertical shaft sinking in the Kuznetsk Basin. Shakht.stroi. 7 no.5:17-19 My '63. (MIRA 17:4)

1. KuzNIIshakhtostroy (for Solntsev). 2. Stroitel'noye shakhtoprokhodcheskoye upravleniye No.1 tresta Prokop'yevskshakhtostroy (for Usenko).

SOLNTSAV, A.H., inzh.

Shaft sinking with the use of advance boreholes. Shakht. stroi. 8 no.8:23-25 Ag 164. (1974 17:9)

1. Nauchno-issledovateliskiy institut stroitelistva ugolinykh i gornorudnykh predpriyatiy.

MAINTSEV, Alaksey Mikhaylovich; CELEMCHIEG, G.I. (d. menchonso, E.I.), red.

[Use of preserved cartilage in plastic facial surgery] Zactosuwannia konservovenoho khriashcha pry plastychnykh operateiakh na oolyelchi. Kyiv, Záorovina, 1964. 131 p. (MIRA 18:2)

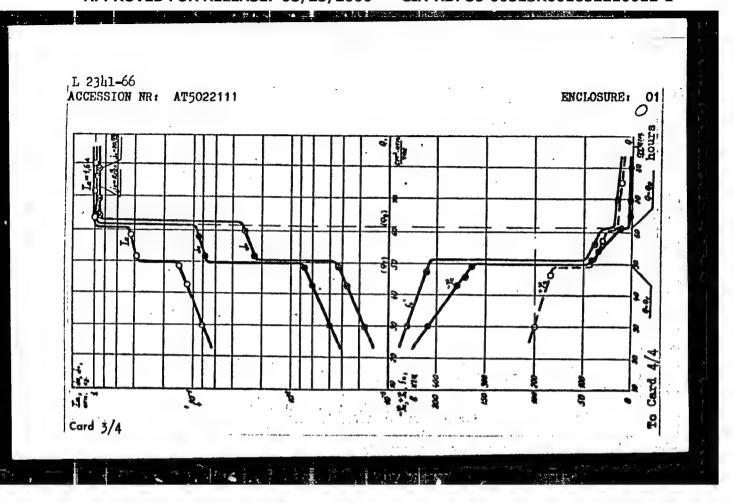
Conductor anesthesia in surgery on the maxilla in young children.

Probl. chel.-lits. khir. no.1:26-29 '65.

Pathological anatomy of osteomyelitis of the maxilla in newborn infants and young children. Ibid.:157-168 (MIRA 18:10)

EWT(1)/ETC/EPF(n)-2/EPA(w)-2/EWG(m)1. 2341-66 IJP(c) AT UR/3136/65/000/855/0001/0015 ACCESSION NR: AT5022111 52 Solntsev, A. M. Nezlin, M. V.; AUTHORS: 46 B+1 TITLE: On the discrete states of a plasma beam and transitions between them SOURCE: Moscow. Institut atomnoy energii. /Doklady/, IAE-855, 1965. O diskretnykh sostoyaniyakh plazmennogo puchka i perekhodakh mezhdu nimi, 1-15 TOPIC TAGS: plasma magnetic field interaction, plasma beam instability, plasma concentration, plasma instability, plasma research ABSTRACT: The present investigation is an extension of the work on plasma beam instability by the senior author (ZhETF, 46, 36, 1964). The behavior of a plasma beam permeated by a flux of primary electrons at conditions  $2 \approx 2\kappa$  was investigated. Here  $2 = \frac{R_2}{R_1}$  and  $2\kappa = \frac{7U_1}{U_2}$  where  $R_1$ ,  $V_1$ ,  $R_2$ ,  $V_3$ are the density and velocity of primary and secondary electrons respectively. The effect of the primary electron velocity distribution on the plasma stability was also investigated. The experimental methods used were described previously (see above reference). The experimental results for the radial ion ourrent density and the volt-ampere characteristics of plasma beams at different conditions are shown Card 1/4

| L 23h1-66<br>ACCESSION NR: AT502211  | 1            |            |          |         |         |          |         | 6    | 1 |
|--|--------------|------------|----------|---------|---------|----------|---------|------|---|
| graphically (see Fig. 1 characterized by three   | on the Encl  | osure). I  | it is co | noluded | that t  | he plas: | na is   | I -  |   |
| Q < Q, where Q is the a  |              |            |          |         |         |          |         |      |   |
| changing the primary el<br>latter become completel   | v random had | no effect  | on the   | stabil  | ity of  | the plac | ama des | ım.  |   |
| The authors thank A. B. 5 graphs and 2 equation  ASSOCIATION: Institut  Emergy)                | Kikhaylovak  | ly for sti | imulatin | g disou | ssions. | Orig.    | art. I  | 1881 | · |
| The authors thank A. B. 5 graphs and 2 equation  ASSOCIATION: Institut                         | Kikhaylovak  | iy for sti | imulatin | g disou | ssions. | tute for | art. I  | 1881 | · |
| The authors thank A. B. 5 graphs and 2 equation  ASSOCIATION: Institut  Energy)                | Kikhaylovak  | iy for sti | wulatin  | g disou | ssions. | tute for | Atomi   | lo . |   |
| The authors thank A. B. 5 graphs and 2 equation  ASSOCIATION: Institut  Energy)  SUBMITTED: 00 | Kikhaylovak  | iy for sti | wulatin  | g disou | ssions. | tute for | Atomi   | lo . |   |



APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210012-1"

| L 2341-66<br>ACCESSION NR:                                    | AT5022111  | and the conflict form of the contract of the c | t afterna annagen i genet vici en di la | * ** *** *** | ENCLOSURE: 02 |
|---|--|--|---|--------------|---------------|
| rom Card 3/4 total anode electeron density Jue floating poter | the median plane of the $\beta$ , and fo the first the linear vibrational flow, on the amount of n the plasma source (Q). potential = 200 v, disnot Ip = Ia, E the magnetic th = 1400 cerst. P = 10-5 mm Eg, L length of |  |   |              | 0             |
| 6 4 6 01  | potential in the installation \$\gamma'\$, harmonic in the spectral region argon used in to discharge pocharge current field strength (0.5 - 1) x 10-beam 150 cm   |  |   | ,            |               |

ACC UR. AT6001615 SOURCE CODE: UR/3136/65/000/932/0001/0929

AUTHOR: Nezlin, M. V.; Sapozhnikov, G. I.; Solntsev, A. M.

ORG: none

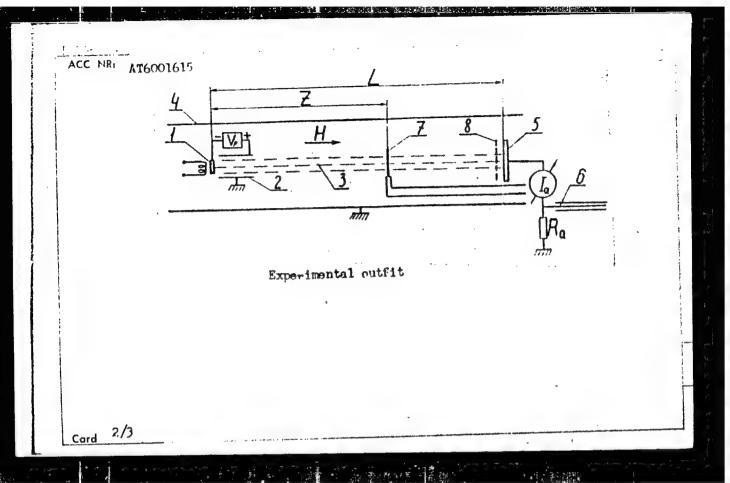
TITLE: Long-wave electron oscillations in a beam-plasma system

SOURCE: Moscow. Institut atomnoy energii. Doktady, IAE-932, 1965.
Dlinnovolnovyye elektronnyye kolebaniya v sisteme puchok-plazma, 1-29

TOPIC TAGS: electron oscillation, plasma, electron beam

ABSTRACT: As previous experimental investigations (e.g., C. C. Cutler, Proc. IRE, 44, 61, 1956) of r-f oscillations in electron beams propagating in vacuum were desultory, the present experiments have been conducted to obtain a systematic picture of the oscillations spectrum, nature, and excitation mechanism. A beam of electrons 3 emitted by W heater-type cathode 1 (see figure) was accelerated by electrode 2 to a few hundred ev and traveled along a strong

Card 1/3



ACC NR: AT6001615

magnetic field, in an equipotential space, along the axis of metal-wall cylinder 4. A movable anode 5 permitted adjusting the beam length within 16-150 cm; other components: 6 - measurement cable, 7 - needle probe, 8 - grid,  $R_a$ - measurement resistance; hydrogen pressure,  $10^{-6}-10^{-9}$  torr; magnetic field, 1000-5000 oe. Spectra of electron-current oscillations at the anode and at the probe were measured. A plasma was formed as a result of gas ionization by the beam, the plasma density being commensurate with that of the beam. The spectrum of these non-Langmuirian oscillations consists of a number of harmonics whose wavelengths obey the formula:  $\lambda_n = 2 L/n$  (where n is the number of the harmonic and L is the beam length) and whose frequencies  $\omega_n$  are determined by the beam-electron velocity V in this way:  $\omega_n \approx K_n V$ , where  $K_n = 2 \pi / \lambda_n$ . The experiments corroborate the theory of longitudinal electron oscillations in a homogeneous beam-plasma system having limited longitudinal and transverse dimensions. Orig. art. has: 11 figures and 20 formulas.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 008 / OTH REF: 009

Card 3/ 3/ 1/

Pz-6/Po-4/Pab-10/Pi-4 LJP(c) EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2L 581115-65 UR/0056/65/048/005/1257/1247 WW/A'T AP5013881 ACCESSION NR: AUTHOR: Nezlin, M. V.; Solntsev, A. M. TITLE: Unstable plasma beam SOURCE: Zhurnal eksperimental now i teoreticheskoy fiziki, v. 48, no. 5, 1965, 1237-1247 TOPIC TAGS: plasma instability, plasma turbulence, plasma spectrum, plasma particle acceleration ABSTRACT: This is a continuation of a systematic study of the properties of an unstable plasma beam, started by the authors earlier (ZhETF v. 45, 840, 1963 and elsewhere). The purpose of the work was to determine the conditions under which the plasma beam becomes unstable, as a function of such parameters as the energy of the fast electrons and the mass of the ions, and to study the electric fields and the character of motion of the charged particles in a plasma with fast ions, produced by an unstable plasma beam in a trap with magnetic mirrors. All the experiments were carried out with the apparatus described in the earlier paper, in magnetic . fields ranging from 1000 to 5000 Oe. The experiments were carried out in two dis-Card 11/2 THE STATE OF THE S

L 58445-65

ACCESSION NR: AP5013881

charge modes, continuous and pulsed. The results show that the plasma turbulent state is characterized by: a) a broad electric-field oscillation spectrum, which includes the ion Larmor frequency and which makes it possible to carry out multiple (stochastic) acceleration of the ions to kilovolt energies, b) the formation of a strongly eccentric plasma torch rotating on the "ion" side with a frequency of several times 10 kcs, and c) acceleration of the ions not only in the transverse but also in the longitudinal direction. The conditions for the transition of the beam to a stable state in which particle acceleration does not occur are considered. The results are compared with data by others. "The authors thank M. S. Toffe and Ya. B. Faynberg for useful discussions, and Ye. K. Yeroshchenkov for participating in some of the experiments." Orig. art. has: 9 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 18Dec64

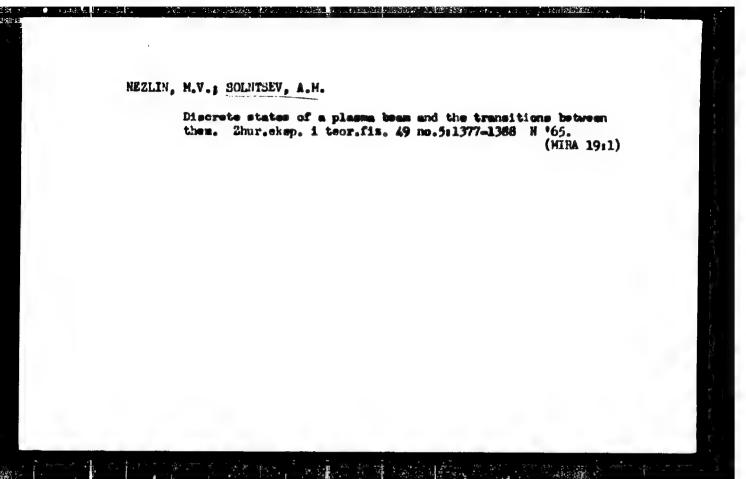
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SUB CODE:

NR REF SOV: 011

OTHER: 003

X87 Card 2/2



L 235/3-05

ACC NR. AP6005385 (A)

SOURCE CODE: UR/0413/66/000/001/0131/0131

INVENTOR: Piskorskiy, G. A.; Polishchuk, V. N.; Solntsev, A. M.

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B

ORG: none

TITLE: Vibratory vacuum type conveyor for air-tight flat parts. Class 49, No.

177751

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 131

TOPIC TAGS: conveyor, vacuum type conveyor, vibratory conveyor

ABSTRACT: An Author Certificate has been issued for a vibratory vacuum-type conveyor for airtight parts. To ensure piece-by-piece delivery of flat airtight parts, the middle part of the vibratory chute is made with holes, and under it there is a receptable connected with all the holes by hoses, a dust collector and a pulsatory vibrating contactor with a vacuum pump to provide the pulsatory action of the suckers (see Fig. 1). Orig. art. has: 1 figure. [LD]

Card 1/2

UDC: 621.867-26

L 29878-66

ACC NR: AP6005385

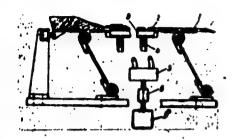


Fig. 1. Vibratory vacuum conveyor for flat airtight parts

1 - vibratory chute; 2 - holes; 3 - receptacle; 4 - hoses; 5 - dust collector; 6 - pulsatory vibratory contactor; 7 - vacuum pump.

SUB CODE: 13/ . SUBM DATE: 07May63

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L 16581-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m)IJP(c)

ACC NR: AP6007215

SOURCE CODE: UR/0056/66/050/002/0349/0363

AUTHOR: Nezlin, M. V.; Sapozhnikov, G. I.; Solntsev, A.

ORG: none

21, 40,54

21,44,55

TITLE: Long wave electron oscillations in a beam-plasma system

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 2, 1966, 349-363

TOPIC TAGS: electron oscillation, electron beam, plasma beam, plasma beam interaction, longitudinal magnetic field, gas ionization, gas pressure, excitation spectrum

ABSTRACT: Long wave electron oscillations excited by an electron beam in a rarefied plasma in the presence of a strong longitudinal magnetic field are investigated experimentally. The plasma is produced as a result of ionization of the gas by the beam. The gas pressure 10<sup>-5</sup> mm Hg and the plasma density is comparable with that of the beam. The oscillations observed are not Langmuir oscillations. Their spectrum consists of a number of harmonics, the wavelengths of which  $(\lambda_n)$  obey the relation  $\lambda_n = 2L/\lambda_n$  (n is the harmonic number and L is

Card 1/2

L 16581-66

ACC NR: AP6007215

the beam length). The frequencies  $\omega_n$  are defined by the velocity of the beam electrons (v) and the wavelength:  $\omega_n \sim k_n v$  where  $k_n = 2\pi/2_n$ . It is shown that the excitation conditions of the oscillations and their spectral characteristics are in good agreement with the theory of longitudinal electron oscillations in an homogeneous beam-plasma system with restricted longitudinal and transverse demensions. The authors take the opportunity to express their appreciation to Ya. B. Faynberg for his interest in this work and for his useful comments, and A. Ye. Bazhanova for providing the roots of dispersion equations with the aid of a computer. Orig. art. has: 11 figures and 6 formulas. [Based on author's abstract]

SUB CODE: 20 SUBM DATE: 27Aug65/ ORIG REF: 008/ OTH REF: 010/

Card 2/2

CALLEY TO THE THE RESIDENCE THE STATE OF THE

ACC NR AP7004568 SOURCE CODE: UR/0056/65/049/005/1377/1388 AUTHOR: Nezlin, M. V.; Solntsev, A. M. ORG: none TITLE: Discrete states of a plasma beam and the transitions between them SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 49, no. 5, 1965, 1377-1388 TOPIC TAGS: plasma beam, electron beam, fast electron It was shown by the authors in earlier articles that '." ABSTRACT: a plasma beam consisting of a cold plasma column and a fast elecitron stream which permeates this column undergoes a transition from a macroscopically steady state to a virtual cathode state when there is a decrease in the ratio of the densities of these components. The purpose of the experiments described in the present article was to investigate the question of the state of the plasma beam in the region of intermediate values of  $\alpha$  , as well as to investigate the frequency spectrum of the oscillations occurring in the beam in all its states and the question of the relationship between this spectrum and the form of the velocity distribution function of the beam electrons. Argon and hydrogen were used as the working gases in the experiments. An orificed electrode and three Langmuir probes were used to measure the frequency spectrum of the oscillations. Card , 1/2

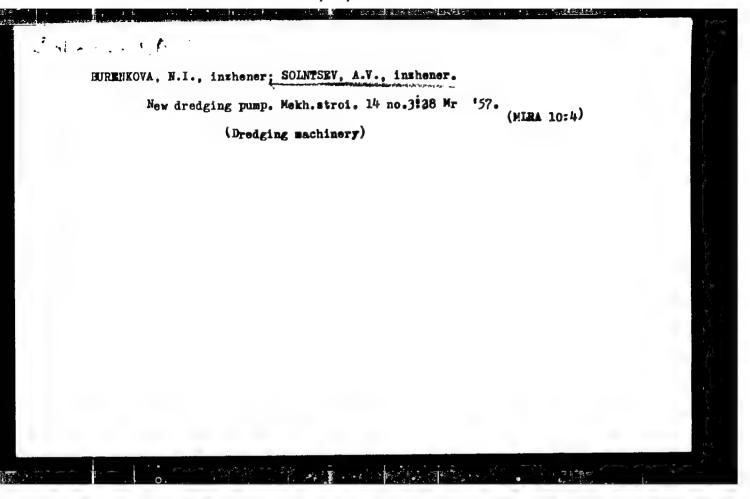
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ACC NR: AP7004568

The article shows that the transition occurs as the result of twojumps between three discrete states, during which there is a significant increase in the energies of the plasma particles and the radial dimensions of the beam and its potential. The oscillation spectrum is shown to consist of a line section and a continuous section, with an increase in oscillation frequencies during the transition jumps. It is found that there is no significant change in the oscillation spectrum in any of the three discrete plasma beam states, even if the fast electron velocity distribution function becomes disordered. This result is of interest in connection, with the question as to whether and to what extent the plasma beam instability here under consideration is associated with the "ordinary" beam instability which occurs in the presence of "order" in electron motion in a velocity space. A definite answer to this question requires an investigation of high-frequency electronic. ("Langmuir") oscillations in all three plasma beam states, and such an investigation is under way at the present time by the authors. The authors express their appreciation to A. B. MIKHAYLOVSKIY for "stimulating discussions" and to V. PIFFL for having taken part in some of the measurements, Orig. art. has: 9 figures and 3 formulas. /JPRS: 34,6577

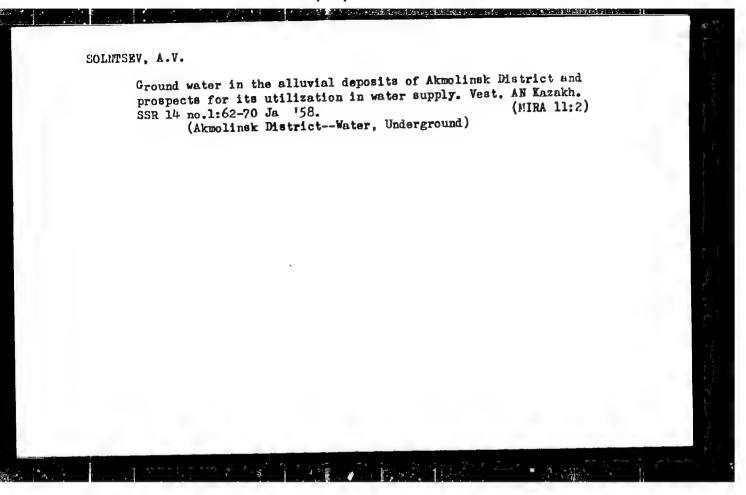
SUB CODE: 20 / SUBM DATE: 21Ju165 / ORIG REF: 009 / OTH REF: 003

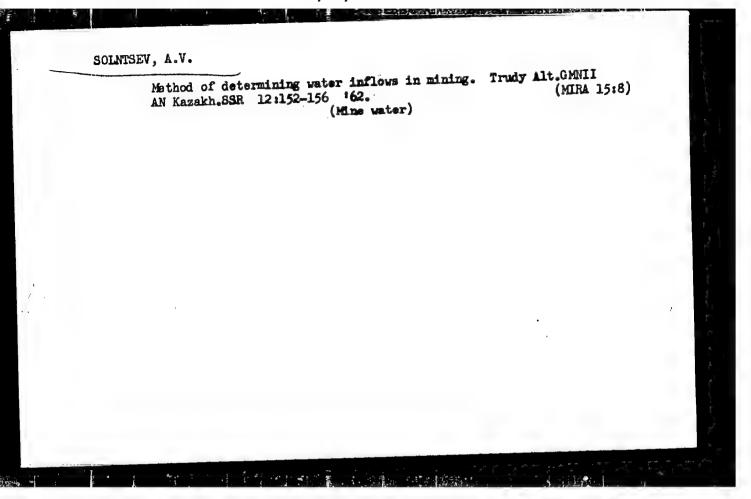
Card 2/2

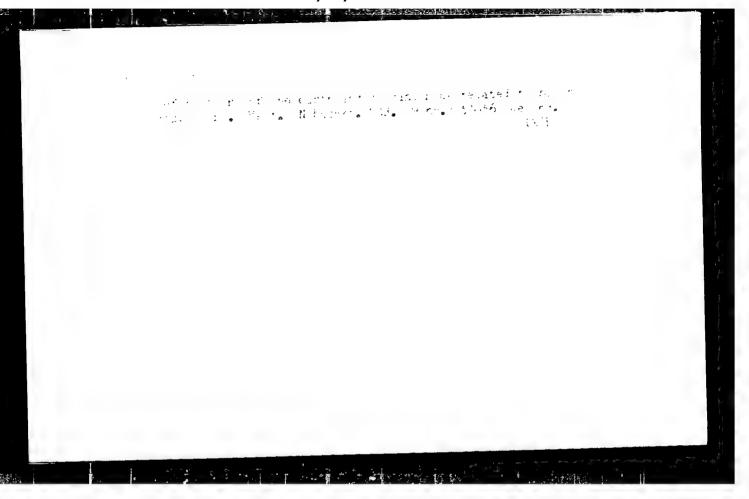


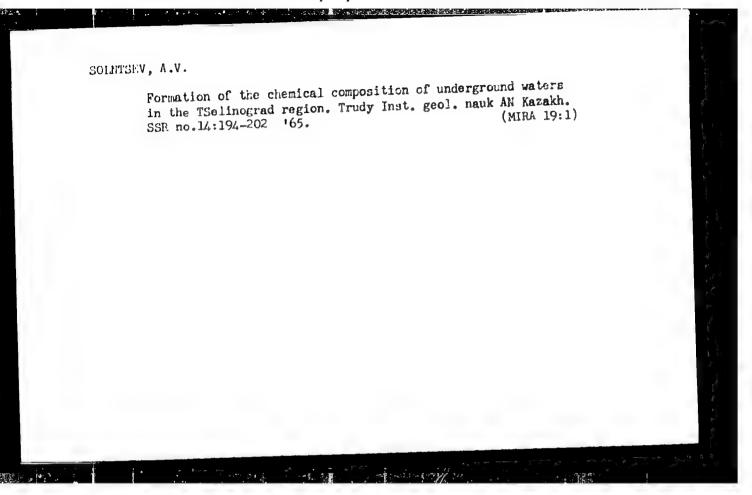
SOLNTSEV, A. V., Cand Geol-Min Sci -- (diss) "Subterranean waters of the eastern part of Akmolinskaya Oblast." Alma-Ata, 1958. 15 pp (Acad Sci Kazakh SSR, Inst of Geol Sci), 107 copies (KL, 35-58, 106)

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SOV/142-2-2-16/25 9(2,3) Vorob'yev, A.A., Solntsev, B.A., and Titov, V.N. AUTHORS:

The Application of an Electrode Electric Field for

TTTLE: Electron Acceleration in a Synchrotron

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, PERIODICAL

1959, Vol 2, Nr 2, pp 246-247 (USSR)

Coaxial cavity resonators found the most wide-spread ABSTRACT:

application as electron accelerators in electron synchrotrons with annular electromagnets. first used by F.K. Goward and D.E. Barnes in 1946. Resonators of this type occupy a part of the pole gap of the electromagnet. Therefore, the outer conductor cannot have sufficiently large dimensions compared to the inner one. Further, bending of the resonator cannot be avoided. These conditions reduce the resonance to a considerable degree. The introduction of highquality dielectrics into the resonator cavity Ref 1, 2, 3 does not produce a considerable increase of the

parallel resistance. In 1948, at the Tomskiy politekhnicheskiy institut imeni S.M. Kirova (Tomsk Poly-

Card 1/4

SOV/142-2-2-16/25

The Application of an Electrode Electric Field for Electron Acceleration in a Synchrotron

technic Institute imeni S.M. Kirov) the suggestion was made to use for electron acceleration the electric field created in a gap between conductive coatings inside the chamber, as shown by figure 1. With a sufficient thickness of the conductive layer, the configuration of the electric field will not be different from the shape of the field created in the accelerating gap of a coaxial resonator. In 1955, a 20 mey synchrotron was built at the Tomsk Polytechnic Institute with the application of the aforementioned electrodes. For feeding high frequency power to the accelerating gap two metal rings were used which were placed on the accelerating chamber, as shown by figure 2. The capacitance component of the input impedance of the device was compensated by a parallel-connected inductance, as shown by the equivalent circuit in figure 3. The aforementioned device occupies little space in the pole gap of the accelerating electromagnet and provides optimum operating conditions.

Card 2/4

SOV/142-2-2-16/25

The Application of an Electrode Electric Field for Electron Acceleration in a Synchrotron

parallel resistance of the accelerating gap may be higher than with coaxial resonators. Frequency adjustments may be easily made. Special matching and balancing systems for the coupling with the HP generator are not required. The manufacture of such an accelerating device is considerably simpler than that of other accelerators. Figure 4 shows a general view of the accelerating device in the chamber. The electromagnet of the 15 mev betatron of the Tomsk Polytechnic Institute provided the magnetic field. The accelerating device was excited by a push-pull generator, composed of metal-ceramic tubes GI-12B, producing approximately 20 watts at a frequency of 350 mc. With such a power, 150 volts were obtained at the synchrotron with this accelerating device were the synchrotron with this accelerating device were the same as those obtained with a coaxial resonator. The gamma radiation had an intensity of 2 roentgen at 1 m

Card 3/4

The Application of an Electrode Electric Field for Electron Acceleration in a Synchrotron

distance from the target. There are 2 diagrams, 1 photograph, 1 circuit diagram and 3 references, 1 of which is Soviet and 2 English.

This article was recommended by the Nauchno-issledovatel'skiy institut yadernykh issledovaniy, elektroniki i avtomatiki pri Tomskom politekhnicheskom instituteimeni S.M. Kirova (Scientific Research Institute for Nuclear Research, Electronics and Automation at the Tomsk Polytechnic Institute imeni S.M. Kirov).

SUBMITTED:

July 11, 1958

Card 4/4

ACC NO. A26013528

SOURCE CODE: UR/0120/66/000/002/0212/0214

of the state of th

AUTHOR: Butakov, L. D.; Solntsev, B. A.

ORG: Scientific Research Institute of Nuclear Physics, Electronics,

ORG: Scientific Research Institute (Nauchno-issledovatelskiy and Automation, TPI, Tomsk (Nauchno-issledovatelskiy

institut yadernoy fiziki, elektroniki i avtomatiki pri TPI)

TITLE: Pulse generator of 100-kw and 40 µsec

SOURCE: Pribory i tekhnika eksperimenta; no. 2, 1966, 212-214

TOPIC TAGS: pulse generator, thyratron, PULSE SHAPER

ABSTRACT: A diagram is given in the original article of a square pulse generator of 100 kw and 40 µsec. Pulses are shaped by the partial discharge of a capacitive accumulator through the thyratron. The front pulse and the clipped pulse are 0.3 and 3 µsec, respectively. The layout provides for increased efficiency of the thyratron quenching circuit. Orig. art. has: 4 figures. [NT]

SUB CODE: 14/ SUBM DATE: 07Apr65/ ORIG REF: 002/ OTH REF: 001/

Card 1/1 ULR

UDC: 621.317.765.4

豪 ACC NR. AT7003996

SOURCE CODE: UR/0000/66/000/000/0098/0104

AUTHOR: Butakov, L. D.; Lashuk, N. A.; Solntsev, B. A.; Tolmachev, V. I.

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ORG: Scientific Research Institute of Nuclear Physics, Electronics, and Automation, Tomsk Polytechnic Institute (Nauchno-issledovatel'skiy institut yadernoy fiziki, elektroniki i avtomatiki pri TPI)

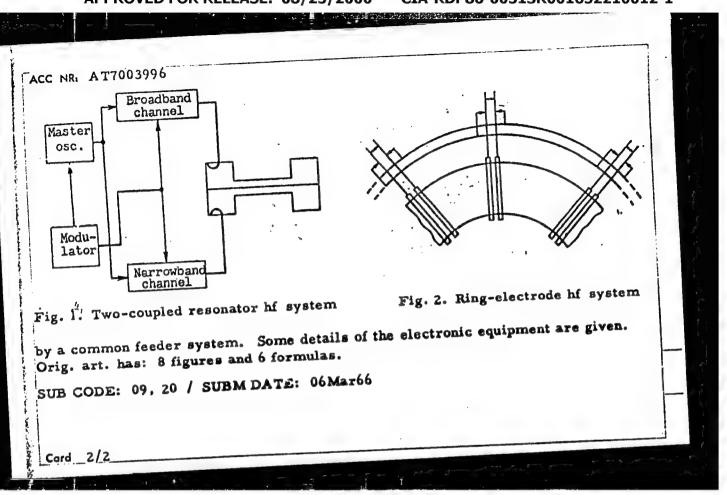
TITLE: High-frequency system for operating an electron synchrotron as a proton-synchrotron

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 98-104

TOPIC TAGS: synchrotron, proton spectron electron

ABSTRACT: Wide passband and high voltages do not permit using conventional protonsynchrotron-tape aperiodic accelerating systems. Nor can drift tubes or accelerating
transformers be used. Hence, two variants of a special accelerator are proposed:
(1) Two closely coupled and shunted toroidal resonators (see Fig. 1) and (2) A system
of ring electrodes (see Fig. 2). The entire frequency deviation is 9 Mc, and the
frequency by the end of the cycle is 36 Mc. The hf channel is divided into two
subchannels: a 1.2-Mc one covering most of the cycle and a wide-band one covering
the initial part of the cycle. In the ring-electrode design, all long lines are supplied

Card 1/2



ACC NR: AT7003997

SOURCE CODE: UR/0000/66/000/000/0105/0111

AUTHOR: Lashuk, N. A.; Solntsev, B. A.

ORG: none

TITLE: Transients in a pulsed hf system

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 105-111

TOPIC TAGS: cyclic accelerator, transient phenomenon, high frequency,

ABSTRACT: The transient time of an accelerating voltage largely depends on the parameters of the accelerator resonator because the latter's Q-factor is considerably higher than that of the oscillator circuits. Principal and equivalent circuits of excitation of the resonator conventionally used in the vhf band are

Card 1/2

ACC NR: AT7003997

shown. Solution of a differential equation that describes the equivalent circuit yields formulas for the output voltage transient (settling) time. The transients in amplifier stages can be reduced by promode modulation in the output stage. Also, a formula describing the phase variation of oscillations under transient conditions is derived. The effect of other circuits on transients is allowed for by introducing an exponential exciting emf. Under resonance conditions, only amplitude transients occur in the oscillatory system; both frequency and phase of forced oscillations are established instantaneously. Orig. art. has: 5 figures and 20 formulas.

SUB CODE: 09, 20 / SUBM DATE: 06Mar66

Card 2/2

ACC NR: AT7004003

SOURCE CODE: UR/0000/66/000/000/0249/0253

AUTHOR: Butakov, L. D.; Lashuk, N. A.; Solntsev, B. A.

ORG: none

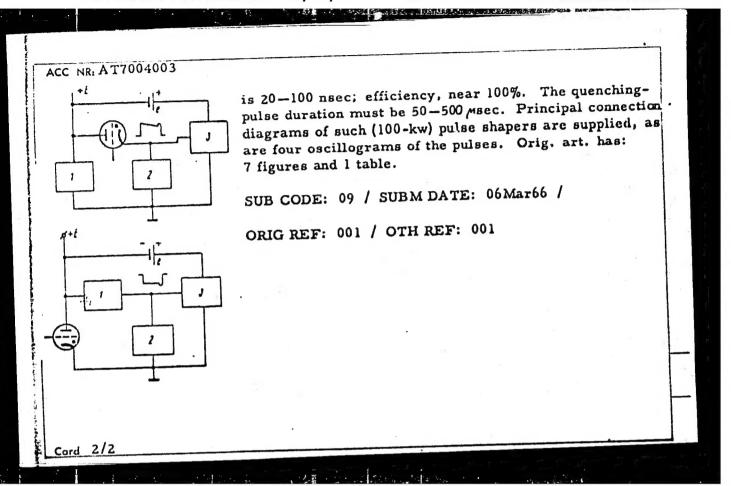
TITLE: Shaping the long steep-front pulses

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 249-253

TOPIC TAGS: pulse shaper, pulse shape, particle acceleration

ABSTRACT: A method is described of shaping high-power steep-front long pulses intended for anode modulation of a hf oscillator (e.g., in a synchrotron accelerator). Millisecond pulses are shaped by discharging a storage into a load via a hydrogen thyratron (G. W. Wheeler, Rev. Sc. Instr., v. 32, no. 10, 1961). To ensure short time and high efficiency, it is suggested that storage 1 (see figure) be discharged via a thyratron directly into grounded load 2. In this case, the thyratron is to be quenched by a pulse supplied by auxiliary oscillator 3. The expected pulse-rise time

Card 1/2



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